

IAP17 Rec'd PCT/PTO 28 APR 2006

AMENDMENTS TO THE CLAIMS

1. (currently amended) A sealed rolling bearing comprising:

an outer member ~~(1; 30)~~ formed with at least one outer raceway surface on its inner circumferential surface;

~~with outer raceway surface (8; 29);~~ an inner member ~~(4, 5; 32)~~ formed with at least one inner raceway surface on its outer circumferential surface, said inner raceway surface with inner raceway surface ~~(9a, 9b; 31)~~ arranged opposite~~oppositely~~ to the outer raceway surface;

~~(8; 29);~~ rolling elements ~~(10; 34)~~ contained ~~freely rollably~~ contained between the outer and inner raceway surfaces; and

sealing devices ~~(12, 13; 35)~~ arranged in an annular space formed between the outer and inner members ~~(1; 30 and 4, 5; 32)~~ characterized in that:

each of the sealing devices ~~(12, 13; 35)~~ has sealing lips ~~(27a~27c, 23~25; 37a, 37b)~~ of an elastic member₁; ~~that~~ the maximum height R_y or R_{max} of the surface roughness of a sliding surface of a member of a rotational side₁ ~~(18, 4; 32)~~ to which the sealing lips ~~(27a~27c, 23~25; 37a, 37b)~~ sliding contact₁ is limited to a value at of 2.0 μ m or less, and ~~that~~ the run-out of the sliding surface₁ normal thereto₁ is limited to a value of at 30 μ m or less.

2. (currently amended) The ~~[[A]]~~ sealed rolling bearing of claim 1 wherein the sealing device includes ~~(12)~~ comprises a a sealing ring ~~(17 or 15, 16)~~ mounted on a member ~~(1)~~ of a stationary side and a slinger ~~(18)~~ mounted on a member ~~(5)~~ of a rotational side, and ~~wherein~~ the sealing lips ~~(23~25)~~ forming the sealing ring ~~(17 or 15, 16)~~ are sliding contact ~~contacted~~ to the slinger ~~(18)~~.

3. (currently amended) The [[A]] sealed rolling bearing of claim 1 wherein the sealing device ~~(13)~~ includes ~~comprises~~ a sealing ring, ~~(26, 27)~~ mounted on a member of a stationary side, with ~~and including~~ side lips ~~(27a, 27b)~~ and a radial lip ~~(27c)~~, and ~~wherein the sealing lips (27a~27c) are directly slidingly dir~~ contact ~~sectly sliding contacted~~ to the member of a rotational side.

4. (currently amended) The [[A]] sealed rolling bearing of claim 1 wherein the sealing device includes ~~comprises~~ a sealing ring ~~(35)~~, mounted on a member of a stationary side, with ~~(30) and including~~ a main lip ~~(37a)~~ and a sub lip ~~(37b)~~, ~~wherein the main lip (37a) is directly sliding contacted~~ contacts ~~to a sealing groove (38) formed on a member of a rotational side, said sealing groove (32) and~~ having a substantially U-shaped cross-section, and ~~wherein the sub lip (37a) is slidingly contacted~~ contacts ~~to a ridge (40) of the sealing groove (38) via a small interference.~~

5. (currently amended) The [[A]] sealed rolling bearing of ~~any one of~~ claims 1-4 wherein the maximum height R_y or R_{max} of the surface roughness of the sliding surface is limited to a value at ~~of~~ $1.2\mu\text{m}$ or less, and the run-out of the sliding surface, normal thereto, is limited to a value of ~~at~~ $10\mu\text{m}$ or less.